

EXHIBIT 18.1

COMPLIANCE WITH RADIOFREQUENCY RADIATION GUIDELINES

This firm was retained to study the potential for human exposure to non-ionizing radiofrequency radiation at the transmitter site shared by existing AM station WNWC(AM), Sun Prairie, WI and existing FM station WHLK(FM), De Forest, WI. There are no other sources of RF radiation within 315 meters of the shared site.

WNWC(AM) operates on a frequency of 1190 kHz with a two tower daytime directional power of 4.8 kW and a proposed nighttime power of 0.021 kW using the daytime operating parameters at a reduced power. The vertical radiators for WNWC(AM) all have electrical heights of 84.9°. For purposes of this study, the worst case daytime power of 4.8 kW has been assumed for each tower. WHLK(FM) operates on FM Channel 226A, 93.1 MHz, with an effective radiated power of 6.0 kW(H) and 5.4 kW(V) elliptical polarization. This firm has been informed WHLK(FM) employs a two-bay Jampro JMPC-2R DA EPA type 2 antenna. The antenna is mounted 94.5 meters AGL.

This site has been evaluated for compliance with the FCC guidelines concerning human exposure to radiofrequency radiation. The standards employed are detailed in OET Bulletin No. 65 (Edition 97-01).

Software packages were used to determine the individual contribution of each station. A software package designed for use with AM stations (under the previous OST Bulletin No. 65, October 1985) was used to determine the contribution of this facility to the non-ionizing radiofrequency radiation present at this site. This program bases its calculations on data found in Figures 1, 2, and 3 of Appendix D of OST Bulletin No. 65, October 1985. FM non-ionization radiation levels were predicted using both the array pattern, the calculations of which are based on the number of bays in the antenna and wavelength spacing between the bays, and the element pattern which is determined by using measured element data prepared by the E.P.A. and published in "An Engineering Assessment of the Potential Impact of Federal Radiation Protection Guidance on the AM, FM and TV Services," by Paul C. Gailey and Richard Tell - April 1985, U.S. Environmental Protection Agency, Las Vegas, NV.

The results of the evaluations for all stations are shown in both graphical and tabular forms at the end of this report. The tabular form lists the portion of the tabular output for each station, showing the region of maximum non-ionizing radiation. (The maximum values have been indicated by the use of **highlighted print**.) For WNWC(AM), the maximum contribution has been assumed to occur at a worst case distance of 2 meters, as taken from OET-65 Table 2. This represents the present WNWC(AM) fencing. The tabulation of AM data use the units of measurement, V^2/m^2 and A^2/m^2 , which were used in the previous standards as set forth in OST Bulletin No. 65, October 1985. The FM graphical display uses an expanded scale to gain better definition of the curve.

Inspection of the tabulations will show that the maximum contribution of WNWC(AM) at the AM tower is made by the magnetic field. At this point, the field has a predicted value of $0.9880 A^2/m^2$, or $0.9940 A/m$, which represents 60.98% of the more stringent $1.63 A/m$ uncontrolled limit. The maximum exposure to non-ionizing radiation from WHLK(FM) is predicted to occur at a distance of 55 meters from the base of the tower. At this point, the total power density will be $8.3249 \mu W/cm^2$. This represents 4.16% of the limit for the more stringent uncontrolled environment.

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To evaluate the total exposure to non-ionizing radiofrequency radiation it is necessary to sum the individual contributions as a decimal fraction of the maximum permissible limit. If the resulting sum is less than or equal to unity, the exposure is concluded to be within the guidelines of OET Bulletin No. 65 (Edition 97-01). To simplify the calculations and produce a "worst case" study, the maximum exposure level produced by WHLK-FM has been selected without regard to the location of that exposure.

The table that follows provides information with respect to those locations defined as an "uncontrolled environment." This includes locations where there could be exposure to the general public. The total decimal fraction is also shown.

<u>Contributing Station</u>	<u>Maximum Contribution</u>	<u>Uncontrolled Environment Limit</u>	<u>Decimal Fraction of Limit</u>
WNWC(AM)	0.9940 A/m	1.63 A/m	0.6098
WHLK(FM)	8.3249 $\mu\text{W}/\text{cm}^2$	200 $\mu\text{W}/\text{cm}^2$	<u>0.0416</u>
Total Decimal Fraction			0.6514

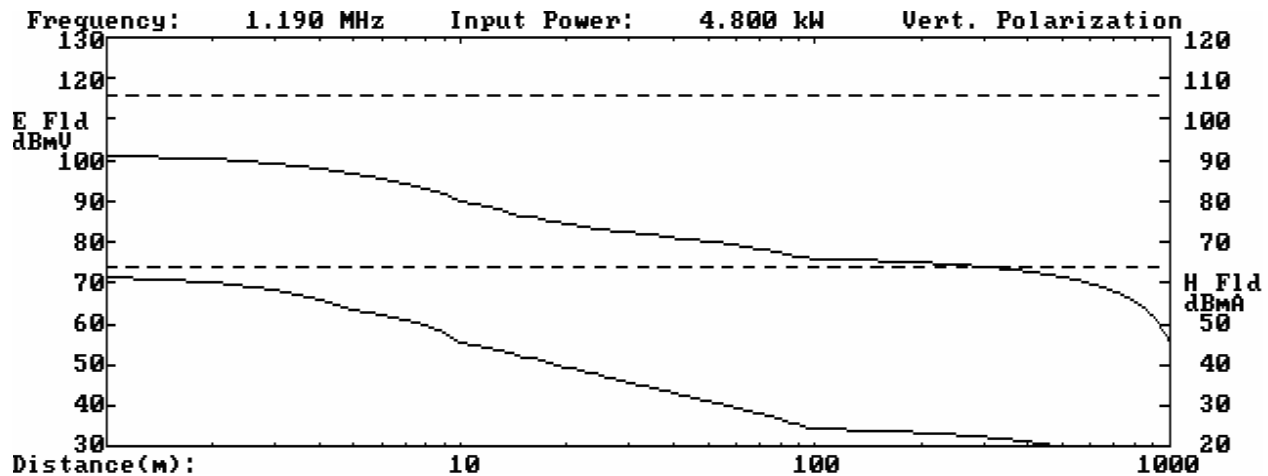
Since the Total Decimal Fraction is less than unity for the uncontrolled environment, the operation of the combined transmitting plants is in compliance with the provisions of OET Bulletin No. 65 (Edition 97-01). Protection of the uncontrolled environment implies protection of the controlled environment. There are no other broadcast sources of radiofrequency non-ionizing radiation present at this site.

In addition to the protection afforded by the existing AM fence and the FM antenna height above ground, the facility is properly marked with signs, and entry to the facility is restricted by means of fencing with locked doors and/or gates. Any other means as may be required to protect employees and the general public will be employed.

In the event work would be required in proximity to the antenna such that the person or persons working in the area would be potentially exposed to fields in excess of FCC guidelines, an agreement, signed by all broadcast parties at the site, is in effect for the offending transmitter(s) to reduce power, or cease operation during the critical period.

PLOT & TAB OF ELECTRIC AND MAGNETIC FIELD STRENGTHS

WNWC(AM) – Sun Prairie, WI



Summary of Input Data: WNWC Frequency: 1.190 MHz
Horizontal Input Power : .000 kW Vertical Input Power : 4.800 kW

Antenna Type: AM DA
Horizontal Element Type Number: 0. Vertical Element Type Number: 1.
Height of observer above reference plane: 2.0 Meters

Element Data: Vertical Number of elements: 1
Distance from analysis reference point: .0 meters
Azimuth from analysis reference point: N .0 E
Height of tower above reference plane: 84.9 Degrees

Element Number	Distance From Center (wavelengths)	Relative Power	Relative Phase
1.	.00	1.000	.0

Calculated Results:

* - indicates computed value exceeds ANSI guideline.

Distance (meters)	Horizontal Polarization		Vertical Polarization		Total Power Density (mW/cm2)
	E2 Field (V2/m2)	H2 Field (A2/m2)	E2 Field (V2/m2)	H2 Field (A2/m2)	
1.00	0.	.0000	12801.	1.3632	13.2101
2.00	0.	.0000	10314.	.9880	10.0942
3.00	0.	.0000	8094.	.6730	7.3807
4.00	0.	.0000	6144.	.4183	5.0694
5.00	0.	.0000	4462.	.2239	3.1604
6.00	0.	.0000	3543.	.1738	2.4816
7.00	0.	.0000	2731.	.1300	1.8845
8.00	0.	.0000	2024.	.0926	1.3692
9.00	0.	.0000	1423.	.0615	.9358
10.00	0.	.0000	927.	.0368	.5841
11.00	0.	.0000	810.	.0320	.5092
12.00	0.	.0000	701.	.0275	.4394
13.00	0.	.0000	600.	.0234	.3747
14.00	0.	.0000	507.	.0196	.3152
15.00	0.	.0000	422.	.0161	.2608
16.00	0.	.0000	392.	.0145	.2386
17.00	0.	.0000	362.	.0130	.2174
18.00	0.	.0000	334.	.0116	.1971
19.00	0.	.0000	307.	.0103	.1778
20.00	0.	.0000	281.	.0090	.1594

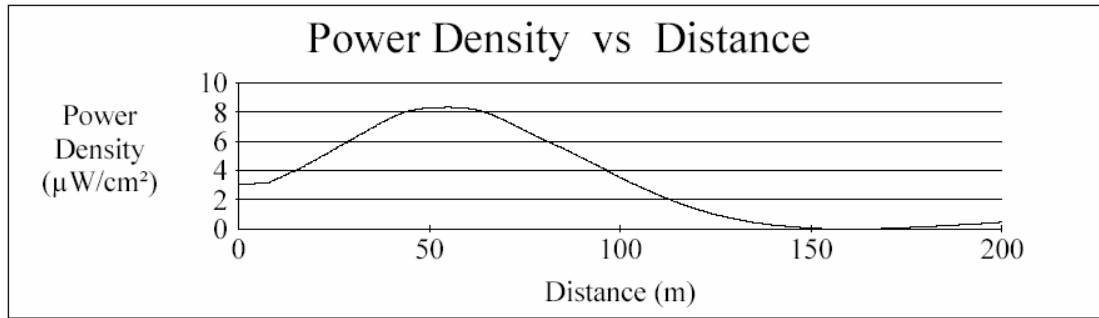
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PLOT OF TOTAL POWER DENSITY

WHIT-FM – De Forest, WI

Using a two-bay EPA Type 2 antenna mounted 94.5 meters AGL



Distance (meters) = 150
Horizontal ERP (W) = 6000
Antenna Height (m) = 94.5
Number of Elements = 2
Y-axis (Linear) = -1

Vertical ERP (W) = 5400
Antenna EPA Type = 2
Element Spacing = 1
X-axis Setup = -1, 200

X(m)	Y(μW/cm ²)	X(m)	Y(μW/cm ²)	X(m)	Y(μW/cm ²)	X(m)	Y(μW/cm ²)
0	3.0227	37	7.1772	75	6.7365	113	2.0080
1	3.0411	38	7.3179	76	6.5979	114	1.9065
2	3.0600	39	7.4546	77	6.4575	115	1.8080
3	3.0795	40	7.5867	78	6.3297	116	1.7127
4	3.0994	41	7.7139	79	6.2219	117	1.6205
5	3.1198	42	7.8357	80	6.1108	118	1.5314
		43	7.9517	81	5.9966	119	1.4453
6	3.1406	44	8.0256	82	5.8797	120	1.3622
7	3.1618	45	8.0871	83	5.7602	121	1.2821
8	3.1833	46	8.1415	84	5.6384	122	1.2050
9	3.2904	47	8.1887	85	5.5146	123	1.1308
10	3.4069	48	8.2286	86	5.3890	124	1.0595
11	3.5240	49	8.2610	87	5.2619	125	.99108
12	3.6415	50	8.2861	88	5.1336	126	.92543
13	3.7593	51	8.3036	89	5.0043	127	.86255
14	3.8771	52	8.3137	90	4.8741	128	.80239
15	3.9948	53	8.3164	91	4.7434	129	.74489
16	4.1121	54	8.3211	92	4.6124	130	.69002
17	4.2474	55	8.3249	93	4.4767	131	.63772
18	4.3919	56	8.3214	94	4.3371	132	.58795
19	4.5374	57	8.3105	95	4.1986	133	.54047
20	4.6834	58	8.2924	96	4.0612	134	.49543
21	4.8298	59	8.2670	97	3.9252	135	.45278
22	4.9762	60	8.2346	98	3.7906	136	.41246
23	5.1222	61	8.1952	99	3.6576	137	.37442
24	5.2675	62	8.1489	100	3.5263	138	.33860
25	5.4139	63	8.0960	101	3.3969	139	.30494
26	5.5671	64	8.0365	102	3.2694	140	.27339
27	5.7195	65	7.9627	103	3.1440	141	.24388
28	5.8706	66	7.8570	104	3.0207	142	.21637
29	6.0202	67	7.7469	105	2.8996	143	.19079
30	6.1677	68	7.6325	106	2.7809	144	.16709
31	6.3128	69	7.5143	107	2.6645	145	.14522
32	6.4551	70	7.3923	108	2.5505	146	.12511
33	6.5942	71	7.2669	109	2.4391	147	.10671
34	6.7355	72	7.1384	110	2.3302	148	.08998
35	6.8855	73	7.0070	111	2.2204	149	.07485
36	7.0329	74	6.8729	112	2.1126	150	.06128

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